Theoretical and Experimental Investigations on the Water Vapour Content in Gas Caverns

by
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1 Introduction

Between the gas company Verbundnetz Gas AG, Leipzig, and the two universities in Trondheim and Freiberg, a cooperation agreement was concluded in 1993 with the intention of the development and consolidation of contacts between the three partners. This objective has been met in the meantime. In addition to the exchange of students and scientists between the participating universities, research projects relevant to all three partners are funded together with STATOIL Stavanger (Fig. 1).

At present, three research projects are under way under the comprehensive title "Mechanical Integrity and Operation of Natural Gas Storage and Transport". Project No. 1 "Phase Transition and Distribution of Water in Caverns", which is the subject of this paper, is conducted jointly by the Department of Chemical Engineering of the Norwegian University of Science and Technology (NTNU), Trondheim, and the Institute of Drilling Engineering and Fluid Mining of the Freiberg University of Mining and Technology (FUMT), Germany.

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